

CLAIMS

We claim:

1 1. A trailer hitch coupling kit for aiding a driver in
2 coupling the tow ball of a towing vehicle and the socket of a
3 trailer coupler, by enabling the driver to view the tow ball and
4 a guidepost mounted above the trailer coupler while seated in
5 the driver's seat of the towing vehicle, comprising:

6 a mirror assembly having a mirror base being substantially
7 flat with a front side and a back side, a mirror secured to said
8 front side of said mirror base, and two support legs pivotally
9 connected to said mirror base;

10 means for attaching said mirror assembly to the rear of a
11 towing vehicle;

12 a trailer coupler guidepost comprising a rod having a first
13 and second end, and a visual aid attached to said first end of
14 said rod;

15 means for attaching said trailer coupler guidepost to a
16 trailer drawbar; and

17 a carrying case.

1 2. The trailer hitch guide kit according to claim 1,
2 wherein said mirror and said mirror base are substantially
3 square.

1 3. The trailer hitch guide kit according to claim 1,
2 further comprising at least one demarcated area for recording
3 mirror setting information, said demarcated area located on said
4 back side of said mirror base.

1 4. The trailer hitch guide kit according to claim 1,
2 wherein each of said support legs has a substantially square
3 cross section.

1 5. The trailer hitch guide kit according to claim 1,
2 wherein each of said support legs is connected to said mirror
3 base via a sleeve and spindle hinge with graduated markings on
4 the spindle.

1 6. The trailer hitch guide kit according to claim 1,
2 wherein said means for attaching said mirror assembly to the
3 rear of a towing vehicle is a first and second foot member,
4 wherein each of said first and second foot member is a clamp
5 having a proximal member and a distal member;

6 each of said proximal member is comprised of a vertical
7 segment with two suction cups attached thereto and a horizontal
8 segment extending substantially horizontally from said vertical
9 segment; and

10 each of said distal members is comprised of a horizontal
11 segment which mates with said horizontal segment of said
12 proximal member via push fit engagement, a downward extending
13 segment that extends downward from said horizontal segment of
14 said distal member, and a means for connecting to one of said
15 support legs of said mirror assembly.

1 7. The trailer hitch guide kit according to claim 6,
2 wherein said means for connecting to one of said support legs of
3 said mirror assembly is a spindle and sleeve hinge extending
4 from said horizontal segment of each of said distal members.

1 8. The trailer hitch guide kit according to claim 1,
2 wherein said rod of said trailer coupler guidepost is
3 telescoping and said visual aid is a disk having a first side
4 and a second side with reflective material attached to each of
5 said first side and said second side.

1 9. The trailer hitch guide kit according to claim 1,
2 wherein said means for attaching said trailer coupler guidepost
3 to a trailer drawbar is a magnet pivotally connected to said
4 second end of said rod of said trailer coupler guide post.

1 10. The trailer hitch guide kit according to claim 1,
2 wherein said carrying case is adapted to receive said mirror
3 assembly, said means for attaching said mirror assembly to the
4 rear of a towing vehicle, said trailer coupler guidepost and
5 said means for attaching said trailer coupler guide post to a
6 trailer drawbar.